Fig. 1

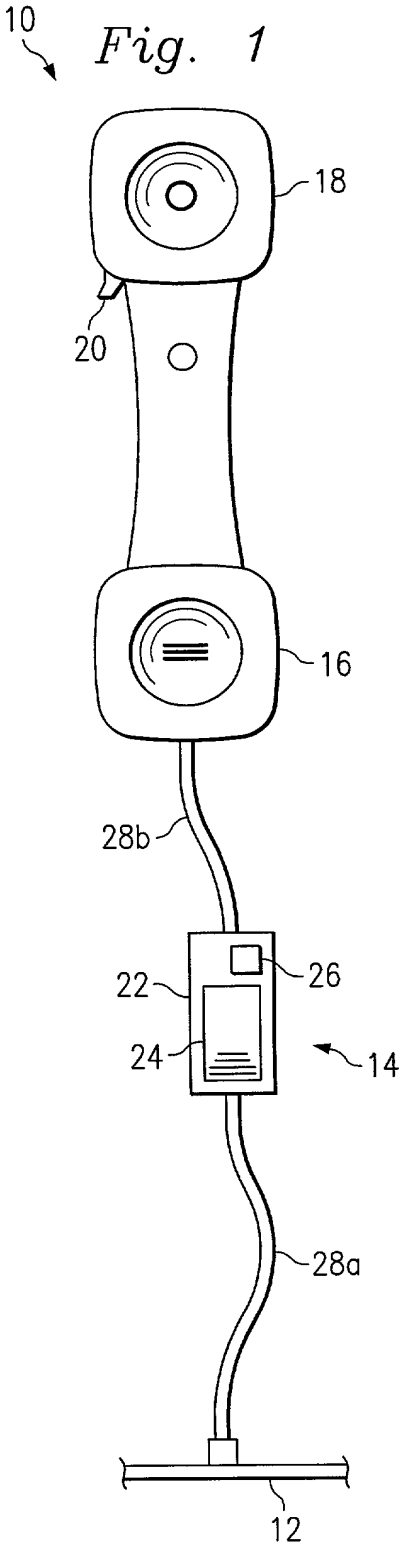

Fig. 5

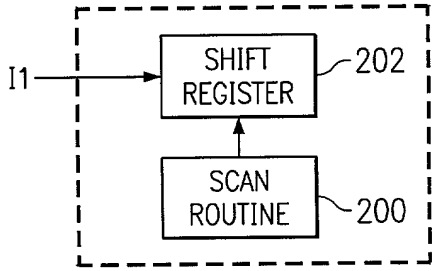

Fig. 6

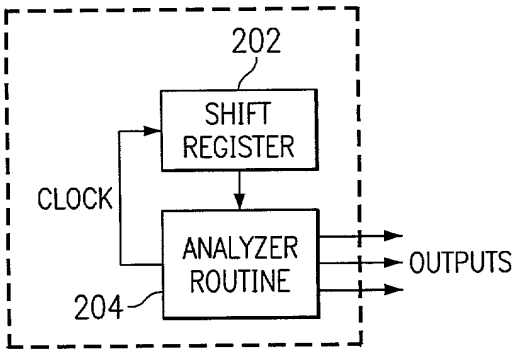

Fig. 7

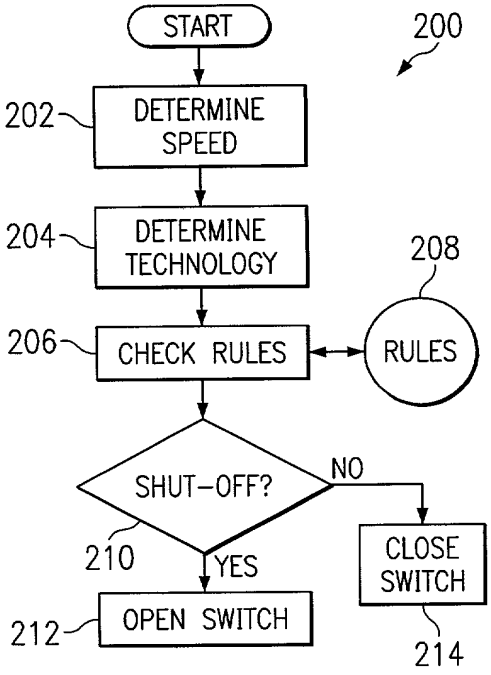

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Fig. 2

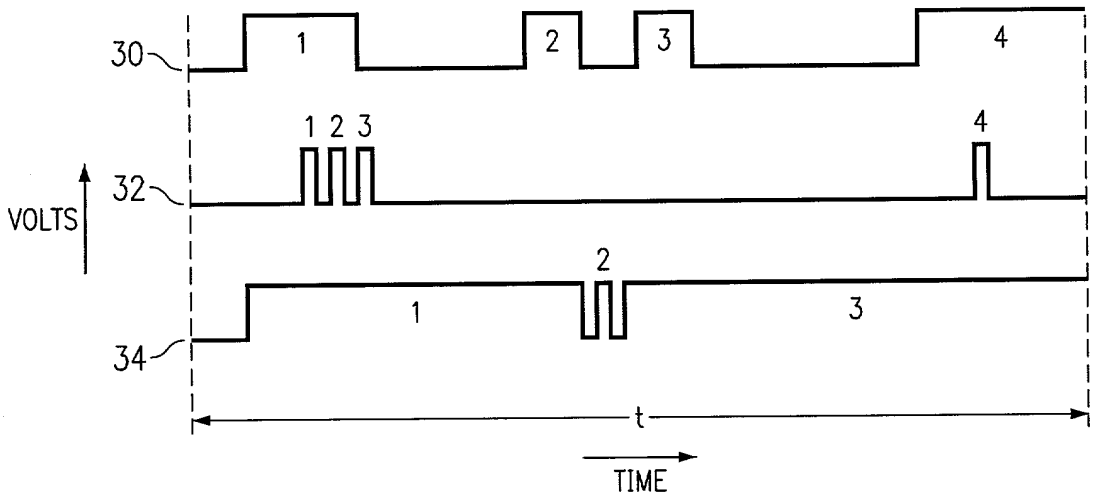
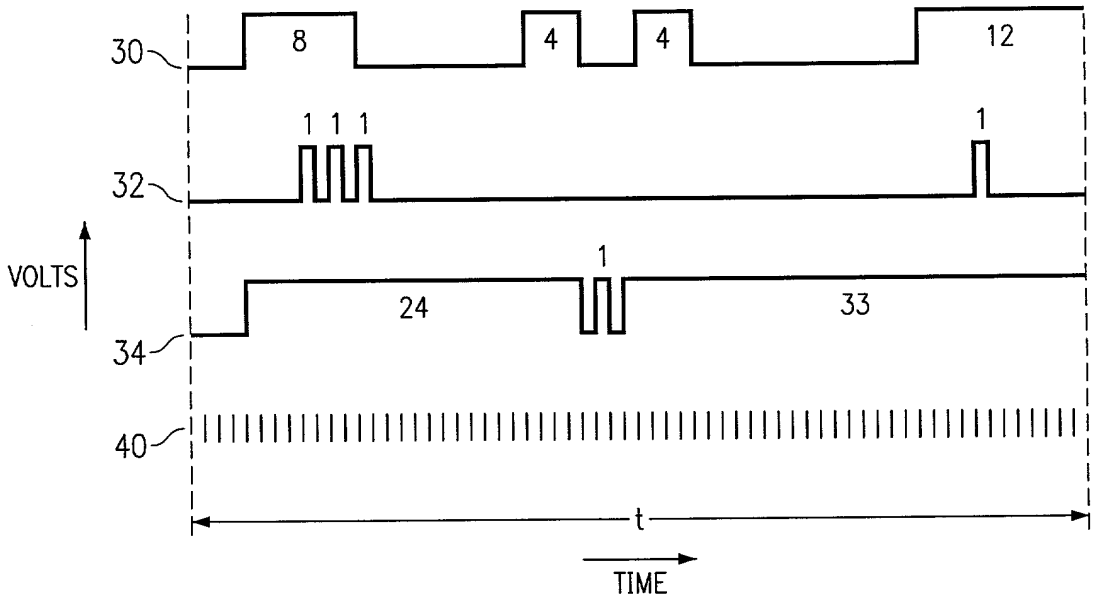


Fig. 3



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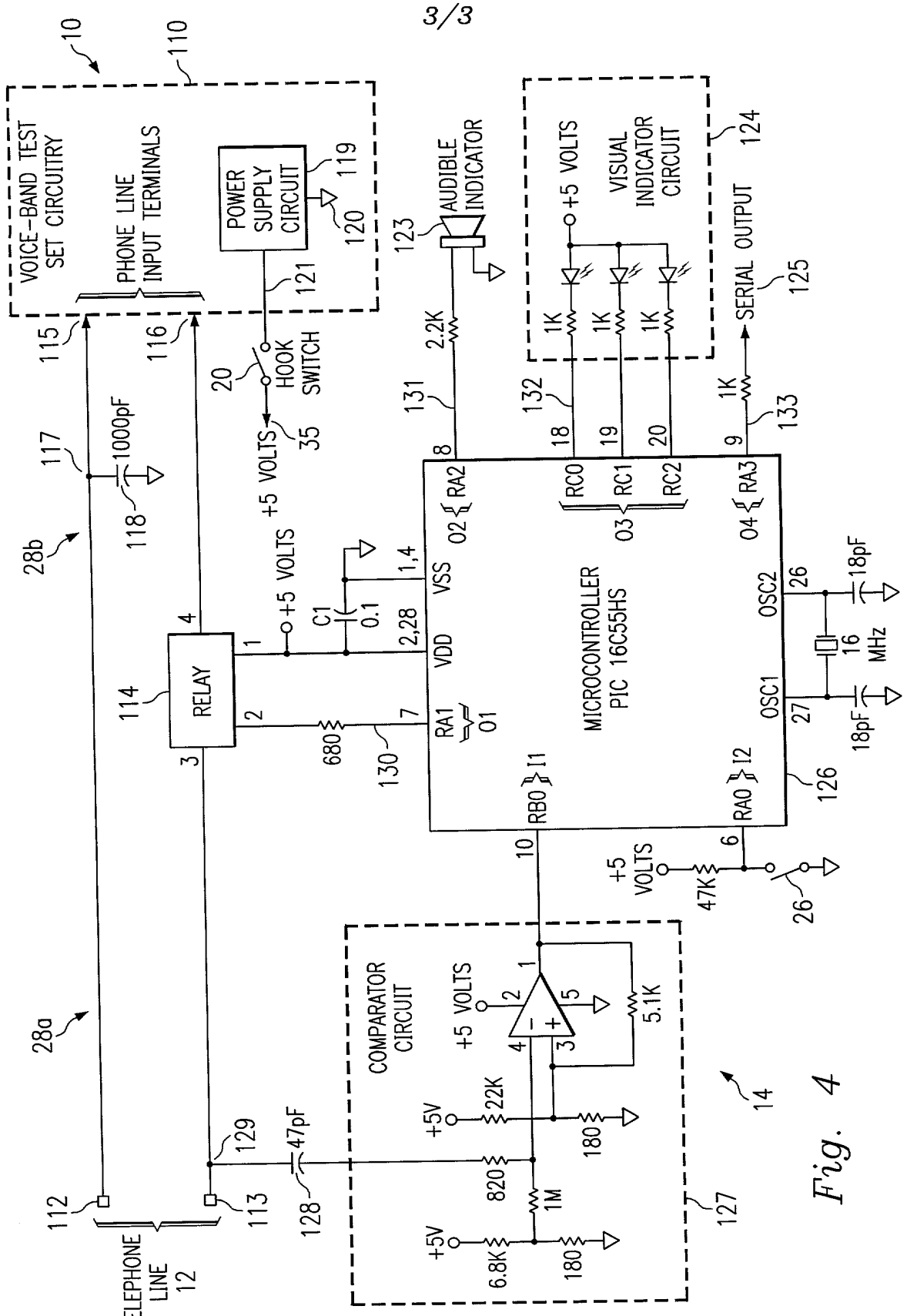
10
110
VOICE-BAND TEST SET CIRCUITRY
PHONE LINE INPUT TERMINALS
POWER SUPPLY CIRCUIT
119
120
121
115
116
117
1000pF
118
20
HOOK SWITCH
35
+5 VOLTS
28b
28a
RELAY
114
4
1
2
3
+5 VOLTS
C1
0.1
1,4
2,28
VDD
VSS
680
130
RA1
01
RA2
02
RB0
11
RC0
RC1
RC2
03
RA3
04
RA0
12
MICROCONTROLLER PIC 16C55HS
OSC1
OSC2
27
26
16 MHz
18pF
18pF
126
10
6
+5 VOLTS
47K
26
AUDIBLE INDICATOR
123
131
2.2K
8
132
18
19
20
9
1K
1K
1K
1K
133
+5 VOLTS
VISUAL INDICATOR CIRCUIT
124
SERIAL OUTPUT
125
COMPARATOR CIRCUIT
+5 VOLTS
+5V
22K
820
1M
6.8K
180
180
5.1K
1
2
3
4
5
129
47pF
128
112
113
TELEPHONE LINE
12
127
14

Fig. 4